

CLAIMS

What is claimed is:

1. A method for programming a programmable industrial controller, in particular a CNC controller, comprising the steps of:
automatically coding into a binary code a sequence of control commands capable of being interpreted and executed by the controller,
supplying the binary code to the controller, and
reconstructing the original sequence of the control commands in the controller.
2. The method of claim 1, wherein at least a segment of the binary code representing the sequence of control commands is compressed.
3. The method of claim 1, wherein the binary code representing the sequence of control commands is encrypted.
4. The method of claim 3, wherein the encrypted binary code includes a usage limitation that limits usage of the sequence of control commands.
5. The method of claim 3, wherein the encrypted binary code includes an individualization code which limits execution of the sequence of control commands to a specific controller.

6. The method of claim 3, wherein the encrypted binary code comprises a user code which restricts execution of the sequence of control commands to a particular user.
7. The method of claim 3, wherein the encrypted binary code comprises a comment for the sequence of control commands.
8. The method of claim 3, wherein the binary code is encrypted with a public key.
9. The method of claim 1, and further comprising the steps of controlling a controlled device, such as a machine tool, with the reconstructed original sequence of the control commands, and deleting from the controller the reconstructed original sequence of the control commands after operation of the controller.
10. The use of a programming method of claim 1 for obtaining a binary code.

11. A method for operating a programmable industrial controller, in particular a CNC controller, comprising the steps of:
reconstructing a sequence of control commands from a binary code stored in the controller, with the controller capable of interpreting and executing the control commands, and
controlling with the reconstructed sequence of control commands a controlled device, such as a machine tool.
12. The method of claim 11, wherein at least a segment of the binary code representing the sequence of control commands is compressed.
13. The method of claim 11, wherein in the binary code representing the sequence of control commands is encrypted.
14. The method of claim 13, wherein the encrypted binary code includes a usage limitation that limits usage of the sequence of control commands.
15. The method of claim 13, wherein the encrypted binary code includes an individualization code which limits execution of the sequence of control commands to a specific controller.

16. The method of claim 13, wherein the encrypted binary code comprises a user code which restricts execution of the sequence of control commands to a particular user.
17. The method of claim 13, wherein the encrypted binary code comprises a comment for the sequence of control commands.
18. The method of claim 13, wherein the binary code is encrypted with a public key.
19. The method of claim 11, and further comprising the step of deleting from the controller the reconstructed original sequence of the control commands after operation of the controller.
20. A computer program, residing on a computer-readable medium, comprising instructions for causing a programmable industrial controller, in particular a CNC controller, to:

reconstruct a sequence of control commands from a binary code stored in the controller, with the controller capable of interpreting and executing the control commands, and

control with the reconstructed control commands a controlled device, such as a machine tool.

21. A programmable industrial controller, in particular CNC controller, capable of interpreting and executing control commands, the controller comprising means for reconstructing a sequence of control commands from a binary code stored in the controller, and means for controlling with the reconstructed sequence of control commands a controlled device, such as a machine tool.